(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
23 June 2005 (23.06.2005)

PCT

(10) International Publication Number
WO 2005/056964 A2

(51) International Patent Classification[7]: E06B

(21) International Application Number:
PCT/US2004/040511

(22) International Filing Date: 3 December 2004 (03.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2003-0087471
4 December 2003 (04.12.2003) KR

(71) Applicant *(for all designated States except US)*: **OTIS ELEVATOR COMPANY** [US/US]; 10 Farm Springs, Farmington, CT 06032 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **NA, Jae-Jung** [KR/KR]; Seongyeong Apt. 3-1102, 271-4 Choeup-dong, Busanjin-gu, Busan 614-762 (KR).

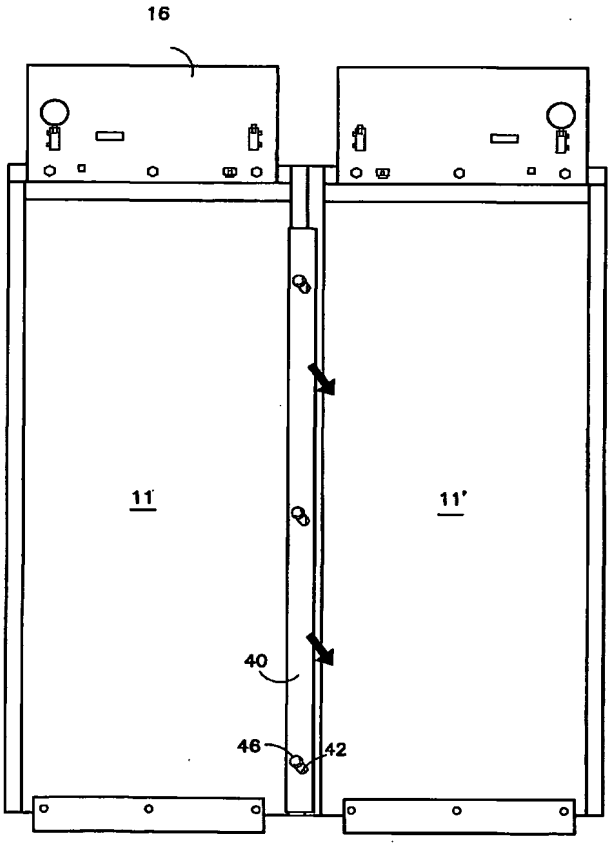
(74) Agent: **SNYDER, Troxell, K.**; Otis Elevator Company, 10 Farm Springs, Farmington, CT 06032 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: ELEVATOR LANDING DOOR SYSTEM HAVING FIRE PROTECTION DEVICE



(57) Abstract: The present invention pertains to an elevator landing door system having a fire prevention device that prevents flame or smoke from penetrating into a shaft (60) from a landing and being spread throughout the entire building by blocking the gap between door panels (11, 11') when a fire breaks out in a building. The elevator landing door system having a fire prevention device consists of door panels (11, 11') that are opened and closed; a fire prevention plate (40) that extends alongside the opening and closing edge surface (11b) of one door panel (11) on the side (11b) facing the elevator, equipped with a downward slot (42) inclined toward the opening and closing edge of the door panel, and fixed to the door panel by a fastening means (46) penetrating through the slot; and fixtures (44) made of a fusible material that are tightly attached together with the door panel and the fire prevention plate by the fastening means. The fixtures (44) are arranged between the door panel (11) and the fire prevention plate (40) or between the fire prevention plate (40) and the fastening means (46) and are made of plastic or lead.

WO 2005/056964 A2

European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.